

07-06-04

IFW

ATTORNEY DOCKET  
074263.0171

PATENT APPLICATION  
10/668,788



1

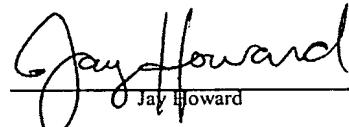
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: William A. Goldman et al.  
Serial No.: 10/668,788  
Date Filed: September 23, 2003  
Group Art Unit: 2123  
Title: *Method of Assaying Downhole Occurrences and Conditions*

EV352394394US

Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express mail No. EV352394394US in an envelope addressed to: Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

  
\_\_\_\_\_  
Jay Howard  
\_\_\_\_\_  
07/02/2004  
\_\_\_\_\_  
Date

Dear Sir or Madam:

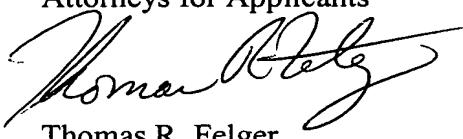
**INFORMATION DISCLOSURE STATEMENT**

Applicants respectfully request, pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, that the references listed on the attached PTO-1449 form, and previously cited in U.S. Application Serial No. 10/133,078, filed April 26, 2002, by William A. Goldman et al., and entitled *Method of Assaying Downhole Occurrences and Conditions*, be considered and cited in the examination of the above-identified continuation application. Pursuant to 37 C.F.R. §1.98(d), copies of the references are not being furnished. Furthermore, pursuant to 37 C.F.R. §§1.97(g) and (h), no representation is made that these references are material to the patentability of the present application.

Applicants believe no fees are due; however, the Commissioner is hereby authorized to charge any fees to Deposit Account No. 50-2148 of Baker Botts L.L.P. in order to effectuate this filing.

Respectfully submitted,

BAKER BOTTS L.L.P.  
Attorneys for Applicants



Thomas R. Felger  
Reg. No. 28,842

Date: 29 JUNE 2004

Correspondence Address:

Customer No. **31625**

Baker Botts, LLP  
98 San Jacinto Blvd  
1500 San Jacinto Center  
Austin, TX 78701  
512.322.2599  
512.322.8305 (Fax)

<b>PTO-1449</b>  <b>Information Disclosure Citation</b> <b>in an Application</b>	Application No.	Applicant(s)		
	10/668,788	William A. Goldman et al.		
	Docket Number 074263.0171 063718.0282 (Old Number)	Group Art Unit	Filing Date	
		2123	September 23, 2003	

**U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	1209299	12/19/16	Hughes	--	--	12/30/16
	A.	1263802	04/23/18	Reed	--	--	08/13/17
	B.	1394769	10/25/21	Sorensen	--	--	05/18/20
	C.	3593807	7/71	Klima	173	6	
	B.	3660649	5/72	Gilchrist et al.	235	193	09/28/70
	D.	3761701	9/73	Wilder et al.	235	193	07/14/71
	E.	3971449	7/76	Nylund et al.	173	11	--
	C.	4056153	11/01/97	Miglierini	175	376	07/16/76
	F.	4195699	4/80	Rogers et al.	713	177	--

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	G.	0384734A	08/29/90	EP	E21B	10/16	X	
	H.	2241266	08/28/91	GB	E21B	10/46	X	
	I.	2328966	3/10/99	GB	E21B	10/16	X	
	J.	2343905	5/24/00	GB	E21B	10/16	X	

**NON-PATENT DOCUMENTS**

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
K.	European Search Report for EP03021140.3; 6 pages	02/04/2004
L.	French Preliminary Report for application no. FR 0203948. 5pages	11/21/2003
M.	Howell Word and Marvin Fisbeck, "Drilling Parameters And The Journal Bearing Carbide Bit", Drilling—DCW, , first published Oct. 1979 in Tulsa, Oklahoma pp. 92-93.	01/1980
N.	Michael A. Simpson, Sr., "Hand-Held Calculator Program Helps Optimize Drilling", World Oil, pp. 97-101	04/1984
O.	E.C. Onyia, "Relationships between Formation Strength, Drilling Strength, and Electric Log Properties", SPE Drilling Engineering, pp. 605-618	10/1988
P.	Brochure entitled: "Twist & Shout", Smith International, Inc., (SB2255.1001), 4 pages.	Printed 06/2004
Q.	Foucault, Hubert et al., "An Integrated Drilling Optimazation for Faster and Higher Improvements in Oseberg South", Halliburton Energy Services; Hydro, 8 pages.	2003

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

<b>PTO-1449</b> <b>Information Disclosure Citation in an Application</b>	Application No.	Applicant(s)		
	10/668,788	William A. Goldman et al.		
	Docket Number 074263.0171 063718.0282 (Old Number)	Group Art Unit 2123	Filing Date September 23, 2003	

**U.S. PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A.	4354233	10/82	Zhukovsky et al.	173	6	--
B.	4407017	9/83	Zhilikov et al.	173	6	--
C.	4479176	10/84	Grimshaw	700	28	02/08/82
A.	4617825	10/86	Ruhovets	73	152.05	09/12/85
B.	4646240	02/87	Serra et al.	364	422	04/07/86
D.	4685329	8/87	Burgess	175	39	--
C.	4718011	01/88	Patterson, Jr.	364	422	11/24/86
D.	4793421	12/88	Jasinski	175	27	07/13/87
E.	4794534	12/88	Millheim	175	40	08/08/85

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
F.	2360304	9/19/01	GB	E21B	10/16	X	-
G.	2363144	12/12/01	GB	E21B	10/16	X	-
H.	2363145	12/12/01	GB	E21B	10/16	X	-
I.	2363146	12/12/01	GB	E21B	10/16	X	-

**NON-PATENT DOCUMENTS**

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
J.	Geir Hareland and L.L. Hoberock, "Use of Drilling Parameters to Predict In-Situ Stress Bounds", SPE/IADC 25727, pp. 457-471	02/1993
K.	R.V. Barragan, O.L.A. Santos and E.E. Maidla, "Optimization of Multiple Bit Runs", SPE/IADC 37644, pp. 579-589	03/04/1977
L.	R.K. Bratli, G. Hareland, F. Stene, G.W. Dunsae and G. Gjelstad, "Drilling Optimization Software Verified in the North Sea", SPE 39007, 7 pages	08/1997
M.	G. Gjelstad, G. Hareland, K.N. Nikolaisen and R.K. Bratli, "The Method of Reducing Drilling Costs More Than 50 Percent", SPE 47342, 7 pages	07/1998
N.	M.B. Ziaja and J.C. Roegiers, "Lithology Diagnosis Based on the Measurements of Drilling Forces and Moments at the Bit", IADC/SPE 47799, pp. 185-194	09/1998

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

<b>PTO-1449</b> <b>Information Disclosure Citation in an Application</b>			Application No.	Applicant(s)			
			10/668,788	William A. Goldman et al.			
			Docket Number 074263.0171 063718.0282 (Old Number)	Group Art Unit 2123	Filing Date September 23, 2003		
<b>U.S. PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	4794535	12/88	Gray et al.	364	420	08/18/86
	B.	4852399	08/89	Falconer	73	151.5	07/13/88
	A.	4875530	10/89	Frink et al.	175	27	03/24/89
	C.	4876886	10/89	Bible et al.	73	151.5	04/04/88
	D.	4916616	04/90	Freedman et al.	364	422	12/08/86
	B.	4926950	05/90	Zijssling	175	39	--
	E.	4928521	05/90	Jardine	73	152.43	03/27/89
	F.	5010789	4/91	Brett et al.	76	108.2	10/06/89
	G.	5216612	06/93	Cornett et al.	364	468	07/16/90
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES      NO
	C.	2364083	1/16/02	GB	E21B	10/16	X      -
	D.	2365899	2/27/02	GB	E21B	10/16	X      -
	E.	2370059	6/19/02	GB	E21B	10/16	X      -
	F.	2370060	6/19/02	GB	E21B	10/16	X      -
<b>NON-PATENT DOCUMENTS</b>							
		<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>					<b>DATE</b>
	G.	H. Xu, T. Hatakeyama, T. Yonezawa and A. Suzuki, "Evaluation of Bit Performance Using an Advanced Drilling-Test System", IADC/SPE 47809, pp. 247-252					09/1998
	H.	H.I. Bilgesu, U. Altmis, S. Ameri, S. Mohaghegh and K. Aminian, "A New Approach to Predict Life Based on Tooth or Bearing Failures", SPE 51082, pp. 253-257					11/1998
	I.	E.T. Koskie, Jr., P. Slagel and W. Lesso, Jr., "Monitoring MWD Torque Improved PDC Bit Penetration Rates", World Oil, pp. 61-67					1998
	J.	K.K. Millheim, "The Role of the Simulator in Drilling Operations", SPE Drilling Engineering					10/1986
	K.						
EXAMINER					DATE CONSIDERED		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

<b>PTO-1449</b> <b>Information Disclosure Citation in an Application</b>			Application No.	Applicant(s)			
			10/668,788	William A. Goldman et al.			
			Docket Number 074263.0171 063718.0282 (Old Number)	Group Art Unit 2123	Filing Date September 23, 2003		
<b>U.S. PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A.	5216917	6/93	Detournay	175	39		--
A.	5239467	08/93	Kelly et al.	364	421		02/19/92
B.	5251286	10/93	Wiener et al.	395	22		03/16/92
B.	5334833	08/94	Case et al.	250	270		06/14/91
C.	5369570	11/94	Parad	364	401		11/14/91
D.	5416697	05/95	Goodman	364	422		07/31/92
E.	5458207	10/95	Mattero	175	27		04/21/92
F.	5461562	10/95	Tabanou et al.	364	422		06/21/94
C.	5539704	07/96	Doyen et al.	367	73		06/23/95
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
D.	2371321	7/24/02	GB	E21B	10/16	X	-
E.	2371366 A	07/24/02	GB	E21B	44/00	X	
F.	470593	8/75	SU	-	-		X
G.	726295	4/80	SU	-	-		X
<b>NON-PATENT DOCUMENTS</b>							
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)						DATE
H.	Dr. Alan J. Scott, "Online Animations of Time Evolving Physical Systems", Depart of Physics, University of Wisconsin-Stout						Printed 05/04/04
I.	G. Martin Milner and Glen Corser, "Data Processing and Interpretation While Drilling", AADE National Drilling Technical Conference						2001
J.	Jim O'Hare and Osarumwense O.A. Aigbekeen Jr., "Design Index: A Systematic Method of PDC Drill-Bit Selection", IADC World Drilling						2000
K.	J Booth and M.M. Cook, "Meeting Future Drilling Planning and Decision Support Requirements: A New Drilling Simulator", SPE/IADC Drilling Conference						2001
L.	P.R. Rampersad, G. Hareland and P. Boonyapaluk, "Drilling Optimization Using Drilling Data and Available Technology", Society of Petroleum Engineers, Inc.						1994
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

<b>PTO-1449</b> <b>Information Disclosure Citation in an Application</b>			Application No.	Applicant(s)			
			10/668,788	William A. Goldman et al.			
			Docket Number 074263.0171 063718.0282 (Old Number)	Group Art Unit 2123	Filing Date September 23, 2003		
<b>U.S. PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.	5660239	08/97	Mueller	175	61	09/27/93
	B.	5704436	1/98	Smith et al.	175	27	03/25/96
	A.	5767399	6/98	Smith et al.	702	10	--
	B.	5794720	8/98	Smith et al.	-	-	--
	C.	5845258	12/98	Kennedy	705	8	06/16/95
	C.	5963910	10/99	Ulwick	705	7	09/20/96
	D.	5965810	10/99	Holbrook	166	254	--
	E.	6021859	2/00	Tibbitts et al.	175	431	--
	F.	6026912	2/22/00	King et al.	-	-	--
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	G.	1716112	2/92	SU	-	-	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
	H.	1654515	03/29/88	SU	E21B	10/16	X <input type="checkbox"/>
	I.	1691497	05/30/88	SU	E21B	10/16	X <input type="checkbox"/>
	J.	91/14214	9/19/91	WO	G05B	19/18	X <input type="checkbox"/>
<b>NON-PATENT DOCUMENTS</b>							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	K.	Joe Kelly, Jr., "Use break-Even Analysis to Optimize Bit Runs", World Oil, pp. 75-79					11/1992
	L.	W.W. Reynolds, " <i>Economic Analysis of Drilling Plans and Contractors by Use of a Drilling Systems Approach</i> ", Journal of Petroleum Technology, XP-002261288, pages 787-793					07/1986
	M.	M.R. Fasshi et al., " <i>Risk Management for the Development of an Offshore Prospect</i> ", SPE 52975, XP-002261289, pages 1-6					03/20/1999
	N.	I.C. Pallister et al., "Asset Optimization Using Multiple Realizations and Streamline Simulation", Society of Petroleum Engineers – SPE 59460					06/25/00
	O.	Tom H. Hill et al., " <i>Drilling Optimization: Practice makes perfect!</i> ", World Oil vol. 220, no. 4, XP-000831749, pages 63-64, 66, and 68.					04/1999
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

<b>PTO-1449</b> <b>Information Disclosure Citation in an Application</b>			Application No.	Applicant(s)			
			10/668,788	William A. Goldman et al.			
			Docket Number 074263.0171 063718.0282 (Old Number)	Group Art Unit 2123	Filing Date September 23, 2003		
<b>U.S. PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A.		6044327	03/28/00	Goldman	702	11	--
B.		6052649	04/18/00	Goldman et al.	702	11	05/18/98
C.		6109368	8/00	Goldman et al.	175	39	--
D.		6131673	10/17/00	Goldman et al.	175	40	03/26/98
E.		6155357	12/5/00	King et al.	-	-	--
F.		6169967	01/02/01	Dahlem et al.	703	10	09/04/98
G.		6233498	5/15/01	King et al.	-	-	--
H.		6276465	8/21/01	Cooley et al.	-	-	--
I.		6374926	04/23/02	Goldman et al.	175	39	06/21/00
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
J.		1020253	11/14/03	NL	-	-	X
K.							
<b>NON-PATENT DOCUMENTS</b>							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)				DATE	
L.		Ali G. Kadaster et al., "Drilling Time Analysis-A TQM Tool For Drilling in the '90s", Petroleum Engineer International vol. 65, no. 2, XP 000349995, pages 31-32, 35-38				02/1993	
M.		Wilson C. Chin, "Wave Propagation in Petroleum Engineering" (1994)				1994	
N.		Adam T. Bourgoyne Jr et. al., "Applied Drilling Engineering", Society of Petroleum Engineers Textbook Series (1991)				1991	
O.		J. P. Nguyen, "Oil and Gas Field Development Techniques: Drilling" (translation 1996, from French original 1993)				1996	
P.		"Making Hole", part of Rotary Drilling Series, edited by Charles Kirkley (1983)				1983	
Q.		"Drilling Mud", part of Rotary Drilling Series, edited by Charles Kirkley (1984)				1984	
R.							
EXAMINER			DATE CONSIDERED				
<b>EXAMINER:</b> Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

<b>PTO-1449</b> <b>Information Disclosure Citation in an Application</b>			Application No.	Applicant(s)			
			10/668,788	William A. Goldman et al.			
			Docket Number 074263.0171 063718.0282 (Old Number)	Group Art Unit 2123	Filing Date September 23, 2003		
<b>U.S. PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A.		6389360	5/02	Alft et al.	702	9	--
B.		6408953	06/25/02	Goldman et al.	175	39	08/28/00
C.		6424919	7/23/02	Moran et al.	-	-	--
D.		6612382	09/02/03	King	175	40	03/28/01
E.		2002/0120401	9/01	Macdonald et al.	702	6	--
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
F.							
G.							
<b>NON-PATENT DOCUMENTS</b>							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)				DATE	
H.		H.G. Benson, "Rock Bit Design, Selection and Evaluation", presented at the spring meeting of the pacific coast district, American Petroleum Institute, Division of Production, Los Angeles, May, (1956)				05/1956	
I.		J.C. Estes, "Selecting the Proper Rotary Rock Bit", Journal of Petroleum Technology, Nov., (1971), pp1359-1367				11/1971	
J.		Sikarskie, et. al., "Penetration Problems in Rock Mechanics", American Society of Mechanical Engineers, Rock Mechanics Symposium, (1973)				1973	
K.		Dykstra, et. al., "Experimental Evaluations of Drill String Dynamics", Amoco Report Number SPE 28323, (1994)				1994	
L.		Kenner and Isbell, "Dynamic Analysis Reveals Stability of Roller Cone Rock Bits", SPE 28314, (1994)				1994	
M.		Bassiouni, Z., "Theory, Measurement, and Interpretation of Well Logs"; Richardson, TX 1994; 23 pgs.				1994	
N.		Computer Processing of Log Data Improves Production in Chaverro Field; pp. 889-895; <i>Journal of Petroleum Technology</i>				07/1967	
O.		Doveton, J.D. et al., "Fast Matrix Methods for the Lithological Interpretation of Geophysical Logs", <i>Geomathematical and Petrophysical Studies in Sedimentology</i> ; 17 pgs.				07/1978	
P.		Doveton, John D.; "Geologic Log Analysis Using Computer Methods" <i>AAGP Computer Applications in Geology</i> , No. 2; 30 pgs.				1994	
Q.		Harris, Martin H et al., "A Computer-Oriented Generalized Porosity-Lithology Interpretation of Neutron, Density and Sonic Log", 10 pgs.				02/1971	
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

<b>PTO-1449</b> <b>Information Disclosure Citation in an Application</b>			Application No.	Applicant(s)			
			10/668,788	William A. Goldman et al.			
			Docket Number 074263.0171 063718.0282 (Old Number)	Group Art Unit 2123	Filing Date September 23, 2003		
<b>U.S. PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A.		4096385	06/78	Marett	702	8	--
B.		4903527	02/90	Herron	702	8	--
C.		5205164	04/93	Steiger et al.	702	9	--
D.		5330016	07/94	Paske et al.	-	-	--
A.							
B.							
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
E.							YES      NO
<b>NON-PATENT DOCUMENTS</b>							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)				DATE	
F.		Rider, Malcom; <i>The Geological Interpretation of Well Logs</i> , Second Edition; Gulf Publishing, Houston, 35 pgs.				1996	
G.		Schlumberger Log Interpretation Principles/Applications: <i>Schlumberger Educational Services</i> ; 15 pgs.				1991	
H.		Dewan, John T.; "Essentials of Modern Open-Hole Log Interpretation", pp. 210227, NL Industries Inc.				1983	
I.		Franco, Victor Hugo, "Introduction to Wireline Log Analysis", Western Atlas International, Houston; pp 185-231				1992	
J.		Crain, E.R.; "The Log Analysis Handbook, Volume One: Quantitative Log Analysis Methods", PennWell, Tulsa, OK				1986	
K.		Prammer, M.G. et al., "Measurements of Clay-Bound Water and Total Porosity by Magnetic Resonance Logging", SPE paper 36522				1996	
L.		Oort, Eric Van, "Physico-Chemical Stabilization of Shales", SPE paper 37623				1996	
M.		Smith, L. et al., "Successful Field Application of an Electro-Negative 'Coating' to Reduce Bit Balling Tendencies in Water Based Mud", SPE/IADC paper 35110				1996	
N.		Glover, et al., "New Advances and Applications of Combining Simulation and Optimization", Proc. Winter Simulation Conference, pp. 144-152				12/1996	
O.		Hill et al., "Intelligent Drilling System for Geological Sensing", Proc. Of the IEEE/RSJ Int. Conf. On Intelligent Robots and Systems, Vol. 1, pp. 495-501				07/1993	
EXAMINER				DATE CONSIDERED			
<b>EXAMINER:</b> Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

<b>PTO-1449</b> <b>Information Disclosure Citation in an Application</b>			Application No.	Applicant(s)			
			10/668,788	William A. Goldman et al.			
			Docket Number 074263.0171 063718.0282 (Old Number)	Group Art Unit 2123	Filing Date September 23, 2003		
<b>U.S. PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A.							
B.							
C.							
D.							
E.							
F.							
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
G.							
<b>NON-PATENT DOCUMENTS</b>							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)				DATE	
H.		Hancke et al., "A Control System for Optimizing Deep Hole Drilling Conditions", Proc. IECON Inter. Conf. On Industrial Electronics, Control and Instrument", vol. 3, pp. 2279-2284.				11/1991	
I.		Murphy, Don; "Selecting the Right Rotary Bit is the Place to Smart Cutting Costs", The Oils & Gas Journal, pp. 88-92.				02/03/69	
J.		Jackson, R.A.; "Cost/Foot: Key to Economic Selection of Rock Bits", World Oil, pp. 83-85.				06/1972	
K.		Estes, Jack C.; "Guidelines for Selecting Rotary Insert Rock Bit", Petroleum Engineer, pp. 30-34.				09/1974	
L.		Chambers, Robert et al., "Drilling Man's Guide to Better Bit Selection", Petroleum Engineer, pp. 100-108.				06/1982	
M.		Novig, T., "Factors Affecting Rock Bit Selection", Oil Gas Magazine				04/1988	
N.		Soemodihardjo, W. et al., "Application of an Expert System to Rotary Drilling Bit Selection", 1 <sup>st</sup> Victorian Dep. Of Manufacturing Ind. Dev., pp. II-17 through II-40.				11/1991	
O.		Dfendihev, G.M. et al., "The Optimum Decision in Cutting-Type Drilling Bits Selection with Regard to their Operating Conditions and the Vagueness of the Task Pose", Energy Sources, Vol. 13, pp. 243-250.				1991	
P.		"Advanced Bit Engineering, Selection Lowers Drilling Cost", Petroleum Engineer No. 9, Vol. 65, p. 3.				09/1993	
Q.		Falcao, J.L. et al., "PDC Bit Selection through Cost Prediction Estimates Using Crossplots and Sonic Log Data", SPE/IADC 25733, pp. 525-535.				1993	
EXAMINER			DATE CONSIDERED				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

<b>PTO-1449</b> <b>Information Disclosure Citation in an Application</b>	Application No.	Applicant(s)		
	10/668,788	William A. Goldman et al.		
	Docket Number 074263.0171 063718.0282 (Old Number)	Group Art Unit 2123	Filing Date September 23, 2003	

**U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.						
	B.						
	C.						
	D.						
	E.						
	F.						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
	G.						

**NON-PATENT DOCUMENTS**

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	H.	Pessier, R.C. et al., "Different Shales Dictate Fundamentally Different Strategies in Hydraulics, Bit Selection, and Operating Practices", SPE 28322, pp. 307-318.	1994
	I.	Tewari, Shrikant, "Dull Bit Grading and Rock Strength Analysis Key to Bit Selection", Oil & Gas Journal, pp. 45-51.	12/05/94
	J.	Hameed A. et al., "Deep Wells Bit Optimization", SPE/IADC 39269, pp. 197-203	1997
	K.	Perrin, V.P. et al, "Drilling-Index-A New Approach to Bit Performance Evaluation", SPE/IADC 37595, pp. 199-205.	1997
	L.	De Castro, F.J.N. et al., Evaluation of Drill Bit Performance Taking into Account the in Situ State of Stress", SPE International, pp. 1-8.	1997
	M.	Fabian, Robert T., "In Situ Compressive Strength Analysis as an Aid in Fixed Cutter Bit Selection and Performance", ASME International, pp. 86-94.	1997
	N.	Xu, H.. et al., "A Method for Bit Selection y Modeling ROP and Bit-Life", The Petroleum Society, Paper 97-78, p. 1-8.	06/08/97
	O.	Security DBS, "Design at the Customer Interface", brochure	1997
	P.	Dekun, Ma et al., "Computer Simulation of the Interaction between Roller Bit and Rock", Proceedings of the International Meeting on Petroleum Engineering, Part 1 of 2; vol. 1, pp. 309-317; XP002266077	1995
	Q.	Warren, T.M.; "Factors Affecting Torque for a Roller Cone Bit", JPT J PET Technol., vol. 36, no. 10, pp. 1500-1508; XP002266079	06/1989

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

<b>PTO-1449</b> <b>Information Disclosure Citation in an Application</b>			Application No.	Applicant(s)			
			10/668,788	William A. Goldman et al.			
			Docket Number 074263.0171 063718.0282 (Old Number)	Group Art Unit 2123	Filing Date September 23, 2003		
<b>U.S. PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A.						
	B.						
	C.						
	D.						
	E.						
	F.						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
	G.						
<b>NON-PATENT DOCUMENTS</b>							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
	H.	Sheppard, M.C et al., "Forces at the Teeth of a Drilling Rollercone Bit: Theory and Experiment", Proceedings: 1988 SPE Annual Technical Conference and Exhibition; vol. Delta, pp. 253-260, XP002266080					10/02/1988
	I.	Steklyanov, A.V. et al., "Improving the Effectiveness of Drilling Tools", KhM-3 Oil Industry Machine Building, Moscow, pp. 1-35.					1991
	J.						
	K.						
	L.						
	M.						
	N.						
	O.	LITIGATION DOCUMENTS					
	P.	Memorandum Opinion of Judge Davis, signed February 13, 2004, in the United States District Court for the Eastern District of Texas, Sherman Division, Civil Action No. 4-02CV269, Halliburton Energy Services, Inc. v. Smith International, Inc., 37 pages (including fax coversheet)					02/19/2004
	Q.						
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							